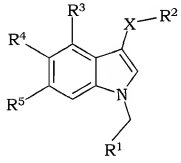
CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A compound having the formula



wherein

X is S, SO or SO_2;

R^1 is a 5- or 6-membered monocyclic, hetero- or homocyclic, saturated or unsaturated ring structure optionally substituted with one or more substituents selected from the group consisting of halogen, CN, (1C-4C)fluoroalkyl, nitro, (1C-4C)alkyl, (1C-4C)alkoxy and (1C-4C)fluoroalkoxy;

R^2 is 2-nitrophenyl, 2-cyanophenyl, 2-hydroxymethyl-phenyl, pyridin-2-yl, pyridin-2-yl-N-oxide, 2-benzamide, 2-benzoic acid methyl ester or 2-methoxyphenyl;

R^3 is H, halogen or (1C-4C)alkyl;

R^4 is H, OH, (1C-4C)alkoxy, or halogen;

R^5 is H, OH, (1C-4C)alkoxy, NH_2, CN, halogen, (1C-4C)fluoroalkyl, NO_2, hydroxy(1C-4C)alkyl, CO_2H, CO_2(1C-6C)alkyl, or

R^5 is NHR^6, wherein R^6 is (1C-6C)acyl optionally substituted with one or more halogens, $S(O)_2$(1C-4C)alkyl, or $S(O)_2$aryl optionally substituted with (1C-4C)alkyl or one or more halogens, or

R^5 is $C(O)N(R^8,R^9)$, wherein R^8 and R^9 each independently are H, (3C-6C)cycloalkyl, or CH_2R^{10}, wherein R^{10} is H, (1C-5C)alkyl, (1C-5C)alkenyl, hydroxy(1C-3C)alkyl, (1C-4C)alkylester of carboxy(1C-4C)alkyl, (1C-3C)alkoxy(1C-3C)alkyl, (mono- or di(1C-4C)alkyl)aminomethyl, (mono- or di(1C-4C)alkyl)aminocarbonyl, or a 3-, 4-, 5- or 6-membered monocyclic, homo- or heterocyclic, aromatic or non-aromatic ring, or R^8 and R^9 form together with the N a heterocyclic 5- or 6-membered saturated or unsaturated ring optionally substituted with (1C-4C)alkyl;

or a salt ~~or hydrate form~~ thereof.

2. (Previously Presented) The compound according to claim 1, wherein,

R^1 is a 5- or 6-membered monocyclic, hetero- or homocyclic, saturated or unsaturated ring structure optionally substituted with one or more substituents selected from the group consisting of halogen, CN, CF_3, nitro, methoxy, trifluoromethoxy and methyl;

R^2 is 2-nitrophenyl, 2-cyanophenyl, 2-hydroxymethyl-phenyl, pyridin-2-yl, pyridin-2-yl-N-oxide, 2-benzamide, 2-benzoic acid methyl ester or 2-methoxyphenyl;

R^3 is H, halogen or (1C-2C)alkyl;

R^4 is H or F.

3. (Previously Presented) The compound according to claim 2, wherein,

R^5 is H, OH, (1C-4C)alkoxy, CN, halogen, (1C-4C)fluoroalkyl, NO_2, hydroxy(1C-4C)alkyl, CO_2(1C-6C)alkyl, or

R^5 is NHR^6, wherein R^6 is (1C-6C)acyl optionally substituted with one or more halogens, $S(O)_2$(1C-4C)alkyl, or $S(O)_2$aryl optionally substituted with (1C-4C)alkyl or one or more halogens, or

R^5 is $C(O)N(R^8,R^9)$, wherein R^8 and R^9 each independently are H, (3C-6C)cycloalkyl, or CH_2R^{10}, wherein R^{10} is H, (1C-5C)alkyl, (1C-5C)alkenyl, hydroxy(1C-3C)alkyl, (1C-4C)alkylester of carboxy(1C-4C)alkyl, (1C-3C)alkoxy(1C-3C)alkyl, (mono- or di(1C-4C)alkyl)aminomethyl, (mono- or di(1C-4C)alkyl)-aminocarbonyl, or a 3-, 4-, 5- or 6-membered monocyclic, homo- or heterocyclic, aromatic or non-aromatic ring, or R^8 and R^9 form together with the N a heterocyclic 5- or 6-membered saturated or unsaturated ring optionally substituted with (1C-4C)alkyl.

4. (Previously Presented) The compound according to claim 3, wherein,

R^3 is H or halogen;

R^4 is H;

R^5 is H, OH, (1C-4C)alkoxy, CN, F, Cl, CF_3, NO_2, hydroxy(1C-4C)alkyl, CO_2(1C-6C)alkyl, or

R^5 is NHR^6, wherein R^6 is (1C-3C)acyl optionally substituted with one or more halogens or

R^5 is $C(O)N(R^8,R^9)$, wherein R^8 and R^9 each independently are H, (3C-5C)cycloalkyl, or CH_2R^{10}, wherein R^{10} is H, (1C-5C)alkyl, (1C-5C)alkenyl, hydroxy(1C-3C)alkyl, (1C-2C)alkylester of carboxy(1C-2C)alkyl, (1C-3C)alkoxy(1C-3C)alkyl, (mono- or di(1C-4C)alkyl)aminomethyl, (mono- or di(1C-4C)alkyl)aminocarbonyl, (3C-5C)cycloalkyl, or a 5-membered heterocyclic ring.

5. (Previously Presented) The compound according to claim 4, wherein,

X is S or SO_2;

R^2 is 2-nitrophenyl, 2-hydroxymethyl-phenyl, 2-benzamide, 2-methoxyphenyl, 2-cyanophenyl or pyridin-2-yl;

R^3 is H or F;

R^5 is H, OH, (1C-2C)alkoxy, CN, F, Cl, CF_3, NO_2, hydroxy(1C-4C)alkyl, CO_2(1C-4C)alkyl, or

R^5 is NHR^6, wherein R^6 is formyl, acetyl, fluoroacetyl, difluoroacetyl, or trifluoroacetyl, or

R^5 is $C(O)N(R^8,R^9)$, wherein R^8 is H, and R^9 is H, cyclopropyl or

R^9 is CH_2R^{10}, wherein R^{10} is H, (1C-2C)alkyl, hydroxy(1C-2C)alkyl, methoxy(1C-2C)alkyl, cyclopropyl.

6. (Previously Presented) The compound according to claim 5, wherein,

X is S;

R^1 is 3,5-difluorophenyl, pyridin-2-yl, pyridin-3-yl, pyrimidin-5-yl, pyrimidin-4-yl, pyrazin-2-yl, 3-fluorophenyl, 3-cyanophenyl, or 3-nitrophenyl;

R^2 is 2-nitrophenyl, 2-hydroxymethyl-phenyl, 2-methoxyphenyl, 2-cyanophenyl or pyridin-2-yl;

R^3 is H;

R^5 is OH, (1C-2C)alkoxy, CN, CF_3, NO_2, hydroxy(1C-4C)alkyl, CO_2(1C-4C)alkyl, or NHR^6, wherein R^6 is formyl, acetyl, fluoroacetyl, difluoroacetyl, or trifluoroacetyl.

7. (Previously Presented) The compound according to claim 6, wherein,

R^1 is 3,5-difluorophenyl, pyridin-2-yl, pyridin-3-yl, pyrimidin-5-yl, pyrimidin-4-yl, or pyrazin-2-yl;

R^2 is 2-nitrophenyl, or 2-hydroxymethyl-phenyl;

R^5 is OH, (1C-2C)alkoxy, CN, hydroxy(1C-4C)alkyl, or NHR^6, wherein R^6 is formyl, acetyl, fluoroacetyl, difluoroacetyl, or trifluoroacetyl.

8. (Previously Presented) The compound according to claim 7, wherein,

R^1 is 3,5-difluorophenyl, pyridin-2-yl, pyridin-3-yl, pyrimidin-5-yl, or pyrimidin-4-yl;

R^2 is 2-nitrophenyl;

R^5 is OH, (1C-2C)alkoxy, CN, or NHR^6, wherein R^6 is formyl, acetyl, fluoroacetyl, difluoroacetyl, or trifluoroacetyl.

9. (Previously Presented) The compound according to claim 8 selected from the group consisting of 6-Methoxy-3-(2-nitro-phenylsulfanyl)-1-pyrimidin-5-ylmethyl-1*H*-indole, 3-(2-Nitro-phenylsulfanyl)-1-pyridin-2-ylmethyl-1*H*-indole-6-carbonitrile, 3-(2-Nitro-phenylsulfanyl)-1-pyridin-2-ylmethyl-1*H*-indole-6-carbonitrile-hydrochloride, 3-(2-Nitro-phenylsulfanyl)-1-pyrimidin-5-ylmethyl-1*H*-indole-6-carbonitrile, 3-(2-Nitro-phenylsulfanyl)-1-pyrimidin-4-ylmethyl-1*H*-indole-6-carbonitrile, *N*-[1-(3,5-Difluoro-benzyl)-3-(2-nitro-phenylsulfanyl)-1*H*-indol-6-yl]-2-fluoro-acetamide, and *N*-[3-(2-Nitro-phenylsulfanyl)-1-pyrimidin-5-ylmethyl-1*H*-indol-6-yl]-formamide.

10. (Previously Presented) The compound according to claim 5, wherein,

X is S;

R^1 is 3,5-difluorophenyl, pyridin-2-yl, pyridin-3-yl, 3-fluorophenyl, 3-cyanophenyl, or 3-nitrophenyl;

R^2 is 2-nitrophenyl, 2-hydroxymethyl-phenyl, 2-methoxyphenyl, 2-cyanophenyl or pyridin-2-yl;

R^3 is H;

R^5 is $C(O)N(R^8,R^9)$, wherein R^8 is H, and R^9 is H, or CH_2R^{10}, wherein R^{10} is H, (1C-2C)alkyl, hydroxy(1C-2C)alkyl, or methoxy(1C-2C)alkyl.

11. (Previously Presented) The compound according to claim 10, wherein,

R^1 is 3,5-difluorophenyl, pyridin-2-yl, or pyridin-3-yl;

R^2 is 2-nitrophenyl, or 2-hydroxymethyl-phenyl;

R^5 is $C(O)N(R^8,R^9)$, wherein R^8 is H, and R^9 is CH_2R^{10}, wherein R^{10} is H, or (1C-2C)alkyl.

12. (Withdrawn) The compound according to claim 11, which is 1-(3,5-Difluoro-benzyl)-3-(2-nitro-phenylsulfanyl)-1*H*-indole-6-carboxylic acid methylamide.

13. (Previously Presented) The compound according to claim 4, wherein,

X is S;

R^1 is 3,5-difluorophenyl, pyridin-2-yl, pyridin-3-yl, 3-fluorophenyl, 3-cyanophenyl, or 3-nitrophenyl;

R^2 is 2-nitrophenyl, 2-hydroxymethyl-phenyl, 2-methoxyphenyl, 2-cyanophenyl or pyridin-2-yl;

R^3 is H;

R^5 is C(O)N(R^8,R^9), wherein R^8 and R^9 each independently are H, or CH_2R^{10}, wherein R^{10} is H, (1C-5C)alkyl, (1C-5C)alkenyl, hydroxy(1C-3C)alkyl, (1C-3C)alkoxy(1C-3C)alkyl, or (mono- or di(1C-4C)alkyl)aminomethyl.

14. (Previously Presented) The compound according to claim 13, wherein,

R^1 is 3,5-difluorophenyl, pyridin-2-yl, or pyridin-3-yl;

R^2 is 2-nitrophenyl, or 2-hydroxymethyl-phenyl;

R^5 is C(O)N(R^8,R^9), wherein R^8 and R^9 each independently are H, or CH_2R^{10}, wherein R^{10} is H, (1C-5C)alkyl, hydroxy(1C-3C)alkyl, or (1C-3C)alkoxy(1C-3C)alkyl.

15. (Withdrawn) The compound according to claim 14, which is 1-(3,5-Difluoro-benzyl)-3-(2-nitro-phenylsulfanyl)-1*H*-indole-6-carboxylic acid dimethylamide.

16. (Canceled).

17. (Currently Amended) A pharmaceutical composition, comprising:

the compound according to claim 1 or salt thereof and a pharmaceutically acceptable carrier.

18. (Currently Amended) A method of treating an androgen-receptor related disorder in a patient in need thereof, comprising:

administering to said patient a pharmaceutically effective amount of the compound or salt thereof according to claim 1.

19. (Cancelled)

20. (Withdrawn) A method of treating an androgen insufficiency, comprising:
administering a pharmaceutically effective amount of the compound according to to claim 1 to a subject in need thereof.

21. (New) The method of claim 18, wherein the androgen-receptor related disorder is benign prostate hyperplasia.